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Dock. #: ITW 7247.63

Title: Method And Apparatus For Short Arc Welding

Ser. #: 10/822583

Note:

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Total pages (including this sheet): 12

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PATENT

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Attorney's Docket No. ITW 7247.63

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of : Hutchison et al.

Application No.: 10/822583

Filed: April 12, 2004

For: Method And Apparatus For Short Arc Welding

Mail Stop DD Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## INFORMATION DISCLOSURE STATEMENT

Enclosed with this Information Disclosure Statement is a FORM P.T.O. 1449 and identification of prior application(s) in which listed information was already cited and for which no copies are submitted or need be submitted.

CERTIFICATE OF MAILING/TRANSMISSION (37 CFR 1.8a)

I hereby certify that this correspondence is, on the date shown below, being deposited with the Unstates Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22793-1450.

George R. Corrigan

Page 1 of5

1-920-954-1098

Identification Of Prior Application(s) In Which Listed Information Was Already Cited And For Which No Copies Are Submitted Or Need Be Submitted

U.S. Patent Application Serial No. 10/262354, filed September 30, 2002, entitled Method And Apparatus For Short Arc Welding, which is a continuation of, and claims the benefit of the filing date of, U.S. Patent Application Serial No. 10/012788, filed November 5, 2001, entitled Method And Apparatus For Welding With Output Stabilizer, which issued as U.S. Patent No. 6,653,595, which is a continuation of application No. 09/526,770, filed March 16, 2000, entitled Method and Apparatus for Short Arc Welding, which issued as Patent No. 6,326,591, which is a continuation of Application No. 09/024,944 filed on February 17, 1998, which issued as Patent No. 6,087,626.

3,242,312 3,253,119 3,423,564 3,459,920 3,627,975 3,711,058 3,730,136	3/1966 5/1966 1/1969 8/1969 12/1971 1/1973 5/1973	Pierce Manz Sevenco Sevenco Goto Weman Okada
3,731,049	5/1973	Kiyohara, et al.
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3,739,139	6,1973	Weman
3,770,932	11/1973	Cotter et al.
3,775,585	11/1973	Okada
3,781,640	12/1973	Toth
3,792,225	2/1974	Needham, et al.
3,809,853	5/1974	Manz
3,813,594	5/1974	Toth
3,832,523	8/1974	Kitani, et al
3,835,287	9/1974	Jonsson
3,895,212	7/1975	Maxwell et al.
3,899,652	8/1975	Terry, deceased et al.
Re 29400	9/1977	Ericsson
3,961,154	6/1976	Ericsson
3,968,340	7/1976	Fernicola
3,978,311	8/1976	Toth
3,995,137	11/1976	Okada

4,000,374 4,020,320 4,101,755 4,125,759 4,152,759 4,159,409 4,213,084 4,273,985	12/1976 4/1977 7/1978 11/1978 5/1979 6/1979 7/1980 6/1985	Keyser Pijls Uratani Kiyohara Hedberg Hedberg Hiromitsu Paton et al.
4,282,569 4,310,744 4,328,458 4,415,793 4,415,874 4,425,493 4,453,150 4,465,920	8/1981 1/1982 5/1982 11/1982 11,1983 1/1984 6/1984 8/1984	Hardwick et al. Okaka Hiromitsu Podola et al. Messe et al. Mizuno et al. Messe et al. Hoyts, Jr. Et al.
4,469,933 4,482,797 4,485,293 4,533,817 4,544,826 4,546,234 4,631,385 4,647,754	9/1984 11/1984 11/1984 8/1985 10/1985 10/1985 12/1986 3/1987	Mizuno et al. Shiramizu et al. Tabata et al. Makimaa Nakanishi et al. Ogasawara et al. Rothermel Hirasawa
4,665,299 4,717,807 4,728,173 4,769,754 4,794,232 4,866,247 4,870,248 4,889,969	5/1987 1/1988 3/1988 9/1988 12/1988 9/1989 9/1989	Iwata Parks et al. Toth Reynolds et al. Kimbrough et al. Parks et al. Gilliland Kawi et al.
4,897,523 4,914,373 4,954,691 4,972,064 4,994,646 5,001,326 5,003,154 5,017,757	1/1990 4/1990 9/1990 11/1990 2/1991 3/1991 5/1991	Parks et al. Rivkine Parks et al. Stava Tabata et al. Stava Parks et al. Kawai et al.

5,055,815 5,101,092 5,148,001 5,239,154 5,270,516 5,281,791 5,250,786 5,315,222	10/1991 3/1992 9/1992 8/1993 12/1993 1/1994 10/1993 5/1994	Yamamoto et al. Baurle et al Stava Puls Hamamoto et al. Tabata et al. Kikuchi et al. Kasagami et al.
5,338,916	8/1994	Blankenship et al.
5,349,157	9/1994	Blankenship
5,351,175	9/1994	Blankenship
5,408,067	4/1995	Crouse
5,432,317	7/1995	Church
5,436,509	7/1995	Migdal
5,444,214	8/1995	Crouse et al.
5,495,091	2/1996	Tabata et al.
5,581,168 5,726,419 5,824,991 6,025,573 6,051,807 6,051,810 6,087,626 6,326,591	12/1996 3/1998 10/1998 2/2000 4/2000 4/2000 7/2000 12/2001	Rozman et al. Tabata et al. Mita et al. Stava Ogasawara et al. Stava Hutchison et al. Hutchison et al.
EP0441337B1	3/1996	Europe
GB2219154A	11/1989	Great Britain
JP8-80095	6/1994	Japan
JP8-84445	9/1994	Japan
SU1836583A3	8/1993	U.S.S.R.
W096/09679	3/1996	PCT
W096/30155	10/1996	PCT

1-920-954-1098

Stabilisation of transfer and methods of reducing the Spattering of metal in  ${\rm CO_2}$  with a short arc., I.S. Pinchuk, et al. Welding Production 1980, Vol. 27, No. 6

The following references were submitted to, and/or cited by, the Office in the prior application(s) and, therefore, are not required to be provided in this application:

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		3,242,312	3/1966	Pierce			-		UNIL	
		3,253,119	5/1966	Manz	***************************************				····	
		3,423,564	1/1969	Sevenco						
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		3,730,136	5/1973	Okada			_			
		3,731,049	5/1973	Kiyohara	et al.			-		
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		3,739,139	6/1973	Weman							
		3,770,932	11/1973	Cotter et	al,			1			
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		3,813,594	5/1974	Toth							
		3,832,523	8/1974	Kitani et	al.						
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		Re 29400	9/1977	Ericsson						
		3,961,154	6/1976	Ericsson						
		3,968,340	7/1976	Fernicola						
		3,978,311	8/1976	Toth						
		3,995,137	11/1976	Okada						
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		4,125,759	11/1978	Kiyohara						
		4,152,759	5/1979	Hedberg						
		4,159,409	6/1979	Hedberg						
		4,213,084	7/1980	Hiromitsu					***************************************	
		4,273,985	6/1985	Paton et	al.					
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		5,055,815	10/1991	Yamamoto				ال الباديد	DAIL	
		5,101,092	3/1992	Baurle et	al				<del> </del>	
		5,148,001	9/1992	Stava						
		5,239,154	8/1993	Puls						
		5,270,516	12/1993	Hamamoto	et al.				<del>                                     </del>	
		5,281,791	1/1994	Tabata t	al.					
		5,250,786	10/1993	Kikuchi e	The state of the s					
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		5,408,067	4/1995	Crouse		-				
		5,432,317	7/1995	Church						
		5,436,509	7/1995	Migdal						
		5,444,214	8/1995	Crouse et	al.					
		5,495,091	2/1996	Tabata et	al.					
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